

A METHOD FOR EFFICIENT SUPPLY OF POWER TO A
MICROCONTROLLER

ABSTRACT OF THE DISCLOSURE

5 A method and a system for supplying power to a
microcontroller with a single cell. One embodiment of the
present invention discloses incorporation of a power supply
pump circuit with the microcontroller and their dynamic
interaction. The microcontroller sends its power
10 requirements to the power supply pump circuit and in
response, the power supply pump circuit controls the
operating voltage with optimal efficiency. The dynamic
update of power supply pump circuit results in an efficient
use of the power supply pump circuit and thus results in a
15 reduction of the number of dry cell batteries to only a
single cell. Incorporation of the microcontroller and power
supply pump circuit onto a single chip reduces the pin
number requirements as well as the space required on the
printed circuit board.